WTCI-43-P

W99-1199 AMER. BUREAU OF SHIP'G
Addition of New Offices 1 WTC 91 FL

Quality Assurance Division
Design Standards

TAA No. W-991199 **Charge Code:** WD2 200 444

Tenant: AMERICAN BUREAU OF SHIPPING

REVIEW STATUS

Submission No. & Date	Response To	Coordinator's Initial	Memo Date	Approval Date	Facility Rider	Outstanding Comments	Remarks/Status	DWG/SPEC Location
1 (11-10-99)	—	AR	11-29-99	11-29-99		3	Arch. (carpet finish) outstanding Struc. (ceiling) (cabinet weights)	II-C/11
2 (12.28.99)		AF	1/2.00			2	approval pending	"
3 (2-18-00)		CSL	03/02/00			1	"	"
4 (7-24-01)		AF	8-2-01			0	approved	"

THE PORT AUTHORITY OF NY & NJ

ONE WORLD TRADE CENTER
NEW YORK, NY 10048

(212) 435-7000
(973) 961-6600

August 6, 2001

Mr. Michael G. Fahey
Michael G. Fahey, Architects
5 Great Jones Street, Suite 1
New York, N.Y. 10012

SUBJECT: AMERICAN BUREAU OF SHIPPING
1 WORLD TRADE CENTER – 91ST FLOOR
ADDITION OF NEW OFFICES
TAA#991199
SUBMISSION #4 - APPROVAL

Dear Mr. Fahey:

This letter responds to your submittal dated July 19, 2000, requesting review of the documents listed in Attachment A to this letter. The subject Tenant Construction or Alteration Application TAA 991199, which was conditionally approved on Dec. 7, 1999, has now been approved. There are no further comments.

Any changes to the already approved scope of work must be submitted to The Port Authority of N.Y. & N.J. for review and approval prior to commencement of associated work. Only contract documents reviewed and approved by this office are to be released to the field for construction.

At the completion of construction, please submit a set of signed and sealed Mylar reproducibles stamped As-Built with the Tenant Construction or Alteration Application number denoted on each drawing plus a complete set of CADD diskettes formatted for AutoCAD 14 or 2000. In addition, provide two (2) independent disks for Fire Alarm only.

All correspondence or inquiries should be directed to: Don DiDomenico, Project Manager, at The Port Authority of N.Y. & N.J, One World Trade Center, 88 South, New York, N.Y. 10048, (212) 435-4087; fax (212) 435-2408.

Sincerely,

Gerard Gaeta, R.A.
Manager
Tenant Project Management
The World Trade Department

THE PORT AUTHORITY OF NY & NJ
QUALITY ASSURANCE DIV.
ENGINEERING DEPT.
AUG – 9 2001
RECEIVED
NOTED:
REFERRED TO: W99-1199

cc: Mr.Donald Birney : A.B.of S.

ATTACHMENT A - LIST OF DRAWINGS

AMERICAN BUREAU OF SHIPPING
1 WORLD TRADE CENTER – 91ST FLOOR
ADDITION OF NEW OFFICES
TAA#991199
SUBMISSION #4- APPROVAL

DRAWING NO.		DATE
A0	General Notes, Abbreviations, Legend, List Of Drawings, Key Plan	11/03/99
A1	Demolition Plan	11/03/99
A2	Construction / Egress Plan	11/03/99
A3	Reflected Ceiling Plan	11/03/99
A4	Finish Plan	11/03/99
A5	Furniture Plan	111/03/99
A6	Details	11/03/99
A7	Specifications	11/03/99
M1	Mechanical Specifications	11/04/99
M2	Mechanical Plan	11/04/99
SP1	Sprinkler Plan	11/04/99
E1	Electrical Specifications	11/04/99
E2	Electrical Lighting Plan	11/04/99
E3	Electrical Power Plan	11/04/99
E4	Electrical Power Demolition Plan	11/04/99

End of list of drawings-8-6-01

bcc: S. Bhol, G. Gaeta, M. Hanna, A. Serpe, J. Gertler, N. Seliga, R. Benacchio, D. DiDomenico, P. Ortiz

THE PORT AUTHORITY OF NY & NJ **Memorandum**

TO: Gerard Gaeta, Manager, Tenant Project Management, WTD
FROM: C. John Lin
DATE: August 2, 2001
SUBJECT: **WTC– ALTERATION APPLICATION W-991199 – AMERICAN BUREAU OF SHIPPING – 1 WTC, 91ST FLOOR – ADDITION OF NEW OFFICES**
REFERENCE: Review Request dated 07/20/01

COPY TO: A. Fadavi, J. Gertler, M. Hanna, Job Folder

The documents submitted with the referenced request have been reviewed.

The previous conditional approval for construction is now changed to full **approval.**

There are no further comments.

REMARKS: 1) See the attachment for a revised list of approved drawings.

2) Copy Line distribution was via "Outlook" only.

C. John Lin, P.E.
Manager
Quality Assurance Division

I.D.: W99-1199-004
AF/ddh
att.

Reviewers:
A. Ferrera, Coordinator; W. Lipsky, Structural.

ATTACHMENT

ALTERATION APPLICATION W-991199

The following is a revised list of approved drawings. All changes from the previous list are shown in boldface:

Drawings	Dated	Revised
Cover Sht	11/03/99	/ /
A0	11/03/99	/ /
A1	/ /	02/17/00
A2	/ /	12/23/99
A3	/ /	02/17/00
A4	11/03/99	/ /
A5	**/ /**	**07/19/01**
A6	11/03/99	/ /
A7	11/03/99	/ /
M-1	11/04/99	/ /
M-2	11/04/99	/ /
E-1	11/04/99	/ /
E-2	11/04/99	/ /
E-3	/ /	12/17/99
E-4	11/04/99	/ /
SP-1	/ /	12/17/99

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY
TENANT ALTERATION APPLICATION REVIEW REQUEST

DISTRIBUTION		
No	To	Facility
,3	QAD	PATC ZIP43
	D. Warren	PATC ZIP43
	S.P. Chiao	88-S
	R. Waffenshmidt	88-S
	B.Brown	88-S
	LERA	2WTC 35FL
	G. Gaeta	88-S
	R. Simonetti CADD Disk set	2WTC 35-N
	A. Burton	2WTC 35-N
	S. Batra	2WTC 35-N
	C. Semah	86th.fl

Facility :1 WTC Floor: 91st TAA No. 991199 Date: July 20, 2001

TENANT: AMERICAN BUREAU OF SHIPPING

Consultant: Michael G. Fahey Architects

Estimated Cost: $50,000.00 Submittal No. 4

Description of Work: ADDITION OF NEW OFFICES

Please review the attached (revised) application and send comments to:

Project Manager: Don DiDomenico
Location: 1 WTC - 88 - South
Phone: 435- 4087
Fax: 435- 2408

DUE DATE 08/03/01

DESIGN DISCIPLINES

- ☐ Architectural
- ☐ Egress Analysis
- ☒ Structural
- ☐ HVAC
- ☐ Plumbing
- ☐ Sprinkler
- ☐ Electrical
- ☐ Utility > 600 V
- ☐ Civil
- ☐ Geotechnical
- ☐ Environmental
- ☐ Fueling
- ☐ Radio Freq. Coord.
- ☐ Corrosion Protection
- ☐ Elevator / Escalator
- ☐ Other_____

ATTACHMENTS

- ☐ Document List
- ☐ Contract Drawings
- ☐ Contract Specifications
- ☐ Tenant Response
- ☒ Computations
- ☐ Reports
- ☐ Catalog Cuts
- ☐ Copy of TAA
- ☐ Other

Special Instructions

DESCRIPTION

THE PORT AUTHORITY OF N.Y. & N.J.
ENGINEERING DEPT. QUALITY ASSURANCE
DESIGN STANDARDS
JUL 24 2001
W99-1199
(4)
RECEIVED
ALTERATIONS APPLICATION
TENANT CONSTRUCTION REVIEW UNIT

Copy To: J. Gertler, M. Hanna, P. Ortiz, J. Panio, N. Seliga, A. Serpe.

7/20/01
Signature

OFFICE COPY

Michael G. Fahey Architects

July 19, 2001

Mr. Don Di Domenico
Tenant Alteration Application Unit
World Trade Department
1 World Trade Center, 88th Floor
New York, New York 10048

Re: American Bureau of Shipping
T.A.A. # 991199

We hereby submit the appropriate revisions for your comments. The comments and revisions are resolved as follows:

Quality Assurance Division

Structural

1) Drawing A-5, Furniture Plan, Revised Calculations:

a) The weight of the file cabinets shall be treated as a concentrated load or groups of concentrated loads and shall not be distributed over the entire floor area. See NYC Building Code Section 27-557(b)(2).

b) Drawing STR-01 in the World Trade Center's " Architectural and Structural Design Guidelines, Specifications and Standard Details " dated February 27th, 1998, specifies that 100 psf can be imposed on a 200 sq.ft. area if 28 psf is imposed everywhere else in the two-way corner area. Please revise the calculation accordingly.

We have proven that using the above - mentioned principle of 100psf can be imposed on a 200 sq.ft, that the proposed file density load is 44psf. See A-5 for revised calculation.

Thank You,

Michael G. Fahey

THE PORT AUTHORITY OF N.Y. & N.J.
ENGINEERING DEPT. QUALITY ASSURANCE DIV
DESIGN STANDARDS
JUL 2 4 2001
991199
RECEIVED
ALTERATIONS APPLICATION
TENANT CONSTRUCTION REVIEW UNIT

5 Great Jones Street
Suite 1
New York, NY 10012
212 228-0525
212 228-1820 FAX

OFFICE COPY

THE PORT AUTHORITY OF NY & NJ **Memorandum**

TO: M. Hanna, Resident Engineer

FROM: Ali Fadavi

DATE: May 16, 2001

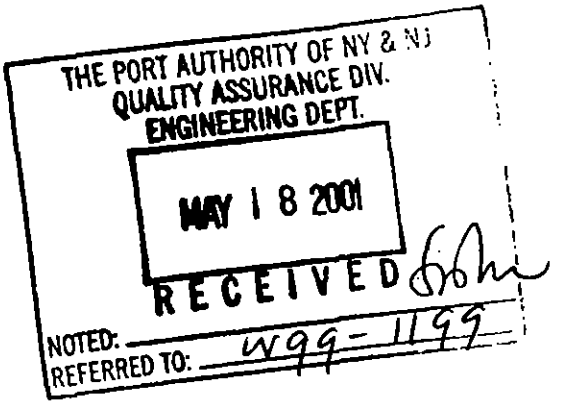
SUBJECT: **WORLD TRADE CENTER – TAA W-991199 – AMERICAN BUREAU OF SHIPPING – 1 WTC, 91ST FLOOR – ADDITION OF NEW OFFICES**

COPY TO: Abu-Ghallous, Bhol, De Martini, Ruff, Schiller, File (2)

On May 7, 2001, Mr. Schiller attended an inspection of the construction performed under the subject TAA.

Since open list items of work remain to be completed, QAD Design Standards comments of March 3, 2000 remain to be addressed and Risk Management's written concurrence for the fire protection system, has not yet been obtained by your office, please inform my office in writing as soon as these items have been completed so that the subject TAA can be re-inspected.

Ali Fadavi, P.E.
Engineer of Projects
Quality Assurance Division



THE PORT AUTHORITY OF NY & NJ

Memorandum

TO:	**Teresa Koebel, Manager, World Trade Project Management**
FROM:	C. John Lin
DATE:	March 3, 2000
SUBJECT:	**WTC– ALTERATION APPLICATION W-991199 – AMERICAN BUREAU OF SHIPPING – 1 WTC, 91ST FLOOR – ADDITION OF NEW OFFICES**
REFERENCE:	Review Request dated 02/18/00
COPY TO:	A. Fadavi, J. Napolitano, E. Moscovitz, J. Richardson, M. Finegold, Job Folder

A review of the material submitted with the referenced request has been made.

The previous recommendation that **approval** to proceed with construction be given **subject to...,** remains unchanged pending submission of the items listed below being revised in accordance with the **one (1) requirement** listed on the attached rider.

Drawings: Reports:

REMARKS: 1) See the attachment for a revised list of drawings recommended for approval.

2) This memorandum was transmitted via Outlook on 03/03/00.

C. John Lin, P.E.
Manager
Quality Assurance Division

I.D.: W99-1199-003
CSL/lm
att.

Reviewers:
C.S. Lee, Coordinator; S. Carroll, Structural.

RIDER

ALTERATION APPLICATION W-991199

STRUCTURAL

1. Drawing A-5, Furniture Plan, Revised Calculations:

   a) The weight of the file cabinets shall be treated as a concentrated load or groups of concentrated loads and shall not be distributed over the entire floor area. See NYC Building Code Section 27-557(b)(2).

   b) Drawing STR-01 in the World Trade Center's "Architectural and Structural Design Guidelines, Specifications and Standard Details" dated February 27, 1998, specifies that 100 psf can be imposed on a 200 sq.ft. area if 28 psf is imposed everywhere else in the two-way corner area. Please revise the calculation accordingly.

030300

ATTACHMENT

ALTERATION APPLICATION W-991199

Subject to compliance with the requirements listed in this memorandum's rider, the following is a revised list of drawings recommended for approval. All changes from the previous list are shown in boldface:

DRAWINGS	DATED	REVISED
Cover Sht	11/03/99	/ /
A0	11/03/99	/ /
A1	/ /	**02/17/00**
A2	/ /	12/23/99
A3	/ /	**02/17/00**
A4	11/03/99	/ /
A5	/ /	**02/17/00**
A6	11/03/99	/ /
A7	11/03/99	/ /
M-1	11/04/99	/ /
M-2	11/04/99	/ /
E-1	11/04/99	/ /
E-2	11/04/99	/ /
E-3	/ /	12/17/99
E-4	11/04/99	/ /
SP-1	/ /	12/17/99

030300

REVIEWER: STEVEN L. CARROLL 3 / 1 /00

COORDINATOR: C. S. LEE

RIDER

ALTERATION APPLICATION W99-1199

STRUCTURAL

1. Drawing A-5, Furniture Plan, Revised Calculations:

   a) The weight of the file cabinets shall be treated as a concentrated load or groups of concentrated loads and shall not be distributed over the entire floor area. See Code Section 27-557(b)(2).

   b) Drawing STR-01 in the "Architectural and Structural Design Guidelines, Specifications and Standard Details," specifies that 100 psf can be imposed on a 200 sq.ft. area if 28 psf is imposed everywhere else in the two-way corner area.

Revised 2/00

3/6

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY
TENANT ALTERATION APPLICATION REVIEW REQUEST

DISTRIBUTION		
No.	To	Facility
4	QAD	PATC Zip 73
1	D. Warren	PATC Zip 43
1	S.P. Chiao	88 S
1	G. Daly	88 S
1	B. Brown	88 S
1	E. Cornelius/Nick Strenk - LERA	2 WTC 35th Fl
1* 1*	R. Simonetti CADD Disk Set	2 WTC 35th Fl.
1	F. DeMartini	88 S
1	P. Negron	2 WTC 35th Fl
1	S. Batra	2 WTC 35th Fl
1	C. Semah	86th Fl

* for each submission

Please review the attached previously application and send comments to:

Facility 1 WTC Floor 91st FL

TAA No. 991199 Date 2/18/00

Application/Tenant AMERICAN BUREAU OF SHIPPING

Consultant MICHAEL A. FARLEY "ARCH"

Estimated Cost $50,000 Submittal No. (3) Three

Description of Work ADDITION OF NEW OFFICES

Name: CARLO J. SAAVEDRA

Location: 1 WTC, 88S Phone No. 435-2922

Fax No.: 435-8168

3/3/00

[redacted]

DATE DUE

DESIGN DISCIPLINES

[ ] Architectural
[ ] Egress Analysis
[ ] Structural
[ ] HVAC
[ ] Plumbing
[ ] Sprinkler
[ ] Electrical
[ ] Utility > 600 V
[ ] Civil
[ ] Geotechnical
[ ] Environmental
[ ] Fueling
[ ] Radio Freq. Coord.
[ ] Corrosion Protection
[ ] Elevator/Escalator
[ ] Other

ATTACHMENTS

[ ] Document List
[ ] Contract Drawings
[ ] Contract Specifications
[ ] Tenant Response
[ ] Computations
[ ] Reports
[ ] Catalog Cuts
[ ] Other

SPECIAL INSTRUCTIONS

DESCRIPTION

OFFICE COPY

THE PORT AUTHORITY OF N.Y. & N.J.
ENGINEERING DEPT. QUALITY ASSURANCE DIV.
DESIGN STANDARDS
FEB 2 2 2000
W99-1199
(3)
RECEIVED
ALTERATIONS APPLICATION
TENANT CONSTRUCTION REVIEW UNIT

Signature

Copy to: R. Benacchio, T. Koebel, J. Napolitano, L. Menno, E. Monteverde, E. Moscovitz, J. Richardson, J. Ruiz, N. Seliga, F. Varriano

_____(Proj. Mgr.)

_____(Zone Prop. Mgr.)

Michael G. Fahey **Architects**

OFFICE COPY

February 14, 2000

THE PORT AUTHORITY OF N.Y. & N.J.
ENGINEERING DEPT. QUALITY ASSURANCE DIV.
DESIGN STANDARDS
FEB 22 2000
W99-1199
RECEIVED
ALTERATIONS APPLICATION
TENANT CONSTRUCTION REVIEW UNIT
(3)

Mr. Carlos Saavedra
Tenant Alteration Application Unit
World Trade Department
1 World Trade Center, 88th Floor
New York, New York 10048

Re: American Bureau of Shipping
T.A.A. # 991199

We hereby submit the appropriate revisions for your comments. The comments and revisions are resolved as follows:

Quality Assurance Division

Structural

1) Drawing A3
a). Typical hung ceiling details A, B AND C. Indicate that the ¼"dia. Ceiling hangers are to be galvanized.

Drawing Indicated as per your request. See revised dwg. A3

b). Ceiling notes. Indicate carry channels to be 2" instead of 1 ½" and delete reference to #9 spring steel wire as metal clip. Show BSA catalog number of the *direct hung clip instead.*

The above mentioned comments have been made to dwg A3. See revised dwg. A3.

2) Drawing A5, Furniture Plan. The load of office file drawers shall be a minimum of 33 psf/tier as per WTC Standards. Please revise the calculations.

See A5 for revised calculations.

World Trade - Structural

3) Drawing No. A5, Furniture Plan:
b) Response to comment is noted. The WTC Structural Design Guidelines require that 33psf per tier be used for load calculation for files. This would result in a 165 psf live load for 5- tier files. Consequently, the structural calculations submitted are not valid, and the comment is repeated:

5 Great Jones Street
Suite 1
New York, NY 10012
212 228-0525
212 228-1820 FAX

Continued:

Please provide structural calculations demonstrating that the design load is not Exceeded or that the floor system is not overstressed due to the lead from the High –density files, other concentrations of files and shelves used for libraries or Paper storage. In the calculations for the southwest corner, consider the loading In the entire two-way corner zone including adjacent offices. See WTC Structural Design Guide lines, Drawing No. STR-01, for design live load.

See A5 for revised calculations.

Fire Alarm

4) Drawing A1

Note 2.0 Demolition- add the following World Trade Center Standard Note: Preserve existing base building Fire Alarm Equipment before, during and After demolition. No device, appliance, wiring or other BBFAS equipment *Is to be removed or disabled until such time as replacement equipment* Is operational. Prior to demolition work the WTC BBFAS maintenance *Supervisor shall be contacted at 435-5005 for coordination purposes Only the WTC Maintenance Contracted (Siemens – Cerberus Division* /Special Projects) is Authorized to perform work on existing WTC BBFAS system equipment (BBFAS- Base Building Fire Alarm System)

The above-mentioned note has been added to dwg A1.

General

This floor is slated for future PA WTD Phase 111 upgrade, design professional To respond if this provision precluded the submission if the WTC BBFAS Design. In any case Minimum Class E Audio EVAC is audibility of phase 11 Evacuation signal in all areas for occupancy. Design professional responsible to assure that occupancy conditions are met.

The occupancy conditions have been met for space occupied by the American Bureau of Shipping.

Thank You

Michael G. Fahey

Michael G. Fahey **Architects**

TRANSMITTAL

Date: February 17th ,2000

To: Carlos Saavedra

From: Renee Ferguson

Re: Project: American Bureau of Shipping (ABS)
Location: World Trade Center, NYC

Message:

Dear Mr. Saavedra,

Enclosed for your review are 10 blue print sets of revised dwgs. A1, A3 & A5. Also submitted herewith are the written response to the comments. Please call with any questions.

OFFICE COPY

Very truly yours,

Renee Ferguson

THE PORT AUTHORITY OF N.Y. & N.J.
ENGINEERING DEPT. - CONSTRUCTION INSURANCE DIV.
DESIGN STANDARDS

FEB 22 2000
W99-1199 (3)
RECEIVED
ALTERATIONS APPLICATION
TENANT CONSTRUCTION REVIEW UNIT

5 Great Jones Street
Suite 1
New York, NY 10012
212 228 0525
212 228 1820 FAX

THE PORT AUTHORITY OF NY & NJ

ONE WORLD TRADE CENTER
NEW YORK, NY 10048

THE PORT AUTHORITY OF NY & NJ
QUALITY ASSURANCE
ENGINEERING DEPT.
JAN 28 2000
RECEIVED

W99-1199

January 19, 2000

Mr. Donald Birney, V.P.
American Bureau of Shipping
2 World Trade Center – 106th Floor
New York, N.Y. 10048

Re: American Bureau of Shipping – One World Trade Center – 91st Floor
TAA 991199 - Submission Two - Conditional Approval

Dear Mr. Birney:

This letter responds to your submittal dated November 10, 1999 requesting a review of the documents listed in Attachment A to this letter. As a result of our review, the Conditional Approval status given to this Tenant Alteration Application 991199 on December 12, 1999 remains unchanged subject to compliance with the comments listed in Attachment B to this letter. We strongly recommended that these comments be transmitted to your contractor.

Incorporate the requirements of the comments into the construction documents, and respond to each of the comments in writing, and submit (10) ten sets of the revised drawings by February 2, 2000. The revised documents shall be signed and sealed by the Engineer or Architect of record who is licensed to practice in the State of New York. Indicate the latest revision number on each drawing in the title box, circle each revision and place the latest revision number inside a triangle. Your cooperation in meeting the submission date for comment resolution will assist in meeting your client's schedule for occupancy.

Any changes to the already approved scope of work must be submitted to the Port Authority of New York and New Jersey for review and approval prior to the commencement of associated work. Only contract documents reviewed and approved by this office are to be released in the field for construction.

All correspondence or inquiries should be directed to Mr. Carlo J. Saavedra, Project Manager, Tenant Project Management, at the Port Authority of New York and New Jersey,] One World Trade Center, 88th Floor South, New York, N.Y. 10048. Telephone (212) 435-2922, fax (212) 435-8168.

Sincerely,

Joseph P. Napolitano
Program Manager, Design Build
Supervisor, Tenant Alteration Applications
Tenant Project Management
The World Trade Department

/cjs

bcc: S.Bhol, R. Benacchio, J. Castaldo, A. Fadavi, T. Koebel, E. Moscovitz, S. Murray, J. Napolitano, J. Picone, C.J. Saavedra, N. Seliga, Central File, Chrono File

THE PORT AUTHORITY OF NY & NJ

Attachment A - List of Documents
One World Trade Center – 91st Floor
TAA 991199 – Submission Two
American Bureau of Shipping

Drawing	Title	Date
A0	General Notes, Abbreviations, Legend, List Of Drawings, Key Plan	11/03/99
A1	Demolition Plan	11/03/99
A2	Construction / Egress Plan	11/03/99
A3	Reflected Ceiling Plan	11/03/99
A4	Finish Plan	11/03/99
A5	Furniture Plan	11/03/99
A6	Details	11/03/99
A7	Specifications	11/03/99
M1	Mechanical Specification	11/03/99
M2	Mechanical Plan	11/03/99
SP1	Sprinkler Plan	11/03/99
E1	Electrical Specifications	11/03/99
E2	Electrical Lighting Plan	11/03/99
E3	Electrical Power Plan	11/03/99
E4	Electrical Power Demolition Plan	11/03/99

THE PORT AUTHORITY OF NY & NJ

Attachment B - List of Comments
One World Trade Center – 91st Floor
TAA 991199 - Submission Two
American Bureau of Shipping

Quality Assurance

Structural

1. Drawing A3

   a). Typical Hung Ceiling Details A, B and C. Indicate that the ¼" dia. Ceiling hangers are to be galvanized.
   b) Ceiling Notes. Indicate carrying channels to be 2" instead of 11/2" and delete reference to #9 spring steel wire as metal clip. Show BSA catalog number of the direct hung clip instead.

2. Drawing A5, Furniture Plan. The load of office file drawers shall be a minimum of 33 psf/tier as per WTC Standards. Please revise the calculations.

World Trade

Structural

3. Drawing No. A5, Furniture Plan:

   REPEAT COMMENT

   b) Response to comment is noted. The WTC Structural Design Guidelines require that 33psf per tier be used for load calculations for files. This would result in a 165 psf live load for 5 - tier files. Consequently, the structural calculations submitted are not valid, and comment is repeated:

   Please provide structural calculations demonstrating that the design live load is not exceeded or that the floor system is not overstressed due to the load from the high-density files, other concentrations of files and shelves used for libraries or paper storage. In the calculations for the southwest corner, consider the loading in the entire two-way corner zone including adjacent offices. See WTC Structural Design Guidelines, Drawing No. STR-01, for design live load.

Fire Alarm

4. Drawing A-1

   Note 2.0 Demo9lition – add the following World Trade Center Standard Note: Preserve existing base building Fire Alarm Equipment before, during and after demolition. No device, appliance, wiring or other BBFAS equipment is to be removed or disabled until such time as replacement equipment is operational. Prior to demolition work the WTC BBFAS maintenance supervisor shall be contacted at 435-5005 for coordination purposes. Only the WTC Maintenance Contractor (Siemens – Cerberus Division/Special Projects) is Authorized to perform work on existing WTC BBFAS system equipment. (BBFAS – Base Building Fire Alarm System)

THE PORT AUTHORITY OF NY & NJ

ONE WORLD TRADE CENTER
NEW YORK, NY 10048

(212) 435-7000
(201) 961-6600

Attachment B - List of Comments
One World Trade Center - 91st Floor
TAA 991199 - Submission Two
American Bureau of Shipping
(Continued)

No WTC BBFAS as review – No BBFAS work shown on drawings.

GENERAL

This floor is slated for future PA WTD Phase III Upgrade, design professional to respond if this provision precluded the submission of the WTC BBFAS Design. In any case Minimum Class E Audio EVAC is audibility of Phase II Evacuation signal in all areas for occupancy. Design professional responsible to assure that occupancy conditions are met.

THE PORT AUTHORITY OF NY & NJ

Memorandum

TO:	**Teresa Koebel, Manager, World Trade Project Management**
FROM:	C. John Lin
DATE:	January 7, 2000
SUBJECT:	**WTC – ALTERATION APPLICATION W99-1199 – AMERICAN BUREAU OF SHIPPING – 1 WTC, 91st FLOOR – ADDITION OF NEW OFFICES**
REFERENCE:	Review Request dated 12/28/99
COPY TO:	A. Fadavi, J. Napolitano, J. Richardson, Chrono Folder, Job Folder

A review of the material submitted with the referenced request has been made.

The previous recommendation that **approval** to proceed with construction be given **subject to...,** remains unchanged pending submission of the items listed below being revised in accordance with the **two (2) requirements** listed on the attached rider.

Drawings: Reports:

REMARKS: 1) See the attachment for a revised list of drawings recommended for approval.

2) This memorandum was transmitted to the Facility via Outlook on January 7, 2000.

C. John Lin, P.E.
Manager
Quality Assurance Division

I.D.: W99-1199-002
AF/lm
att.

Reviewers:
A. Ferrera, Coordinator and Architectural; T. Santa Maria, Electrical; H. Klimenko, Structural; K. [redacted], Fire Protection.

[redacted]

RIDER

ALTERATION APPLICATION W99-1199

STRUCTURAL

1. Drawing A3.

   a) Typical Hung Ceiling Details A, B and C. Indicate that the ¼" dia. ceiling hangers are to be galvanized.

   b) Ceiling notes. Indicate carrying channels to be 2" instead of 1 ½" and delete reference to # 9 spring steel wire as metal clip. Show BSA catalog number of the direct hung clip instead.

2. Drawing A5, Furniture Plan. The load of office file-drawers shall be a minimum of 33 psf/tier as per WTC standards. Please revise the calculations.

ATTACHMENT

ALTERATION APPLICATION W99-1199

Subject to compliance with the requirements listed in this memorandum's rider, the following is a revised list of drawings recommended for approval. All changes from the previous list are shown in boldface:

Dwg Nos.	Dated	Revised
Cover Sht	·11/03/99·	
A0	·11/03/99·	
A1	·11/03/99·	
A2		**·12/23/99·**
A3		**·12/23/99·**
A4	·11/03/99·	
A5		**·12/23/99·**
A6	·11/03/99·	
A7	·11/03/99·	
M-1	·11/04/99·	
M-2	·11/04/99·	
E-1	·11/04/99·	
E-2	·11/04/99·	
E-3		**·12/17/99·**
E-4	·11/04/99·	
SP-1		**.12/17/99**

010700

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY
TENANT ALTERATION APPLICATION REVIEW REQUEST

DISTRIBUTION		
No.	To	Facility
4	QAD	PATC Zip 73
1	D. Warren	PATC Zip 43
1	S.P. Chizo	88 S
1	G. Daly	88 S
1	B. Brown	88 S
1	E. Corneliuz/Nick Strenk - LERA	2 WTC 37th Fl
1* 1*	R. Simonetti CADD Disk Set	2 WTC 37th Fl
1	F. DeMartini	88 S
1	P. Negron	2 WTC 37th Fl
1	S. Batra	2 WTC 37th Fl
1	C. Semah	2 WTC 35th Fl

Facility 1WTC Floor 91 TAA No. 991199 Date 12/28/99

Application/Tenant AMERICAN BUREAU OF SHIPPING

Consultant Michael G. FARLEY - ARCH

Estimated Cost $50,000. Submittal No. TWO (2)

Description of Work

Addition of New Offices

*** for each submission**

Please review the attached (revised) application and send comments to:

Name: Carlo J. Saavedra

Location: 1 WTC, 88S Phone No. 435-2922
Fax No.: 435-8168

1/11/00
Due Date

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DESIGN DISCIPLINES
- [ ] Architectural
- [ ] Egress Analysis
- [ ] Structural
- [ ] HVAC
- [ ] Plumbing
- [ ] Sprinkler
- [ ] Electrical
- [ ] Utility > 600 V
- [ ] Civil
- [ ] Geotechnical
- [ ] Environmental
- [ ] Fueling
- [ ] Radio Freq. Coord.
- [ ] Corrosion Protection
- [ ]. Elevator/Escalator
- [ ] Other

ATTACHMENTS
- [ ] Document List
- [ ] Contract Drawings
- [ ] Contract Specifications
- [ ] Tenant Response
- [ ] Computations
- [ ] Reports
- [ ] Catalog Cuts
- [ ] Other

SPECIAL INSTRUCTIONS

DESCRIPTION

THE PORT AUTHORITY OF N.Y. & N.J.
ENGINEERING DEPT. QUALITY ASSURANCE DIV.
DESIGN STANDARDS

DEC 29 1999
W99-1199 (2)
RECEIVED
ALTERATIONS APPLICATION
TENANT CONSTRUCTION REVIEW UNIT

Signature

Copy to: R. Benacchio, T. Koebel, J. Napolitano, L. Menno, E. Monteverde, J. Richardson, J. Ruiz, N. Seliga, F. Varriano

_____(Proj. Mgr.)

_____(Zone Prop. Mgr.)

Michael G. Fahey **Architects**

December 23, 1999

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ENGINEERING DEPT QUALITY ... DIV
DESIGN STANDARDS
DEC 29 1999
W99-1199 (2)
RECEIVED
ALTERATIONS APPLICATION
TENANT CONSTRUCTION REVIEW UNIT

Mr. Carlos J. Saavedra
Tenant Alteration Application Unit
World Trade Department
1 World Trade Center, 88th Floor
New York, New York 10048

Re: American Bureau of Shipping
T.A.A. # 991199 – Submission one

We hereby submit the appropriate revisions for your comments. The comments and revisions are resolved as follows:

Quality Assurance Division

Architectural

1.) Drawing A4. Submit test reports for the carpets from an independent testing laboratory in compliance with NYC Building Code section 27-351(d)(2). Please note that the Smoke Developed Rating shall not exceed 300 within the first four minutes of the test as per NYCBC Section 27-351(d)(2)(c).

Carpet test reports submitted herewith.

Structural

2.) Drawing A3, Typical Hung Ceiling Detail 2. The detail shown is applicable to the non-trussed, core areas of WTC. Submit ceiling detail for the trussed area according to PA Tenant Construction is adequate to support the load.

See dwg A3 for above mentioned ceiling detail.

3.) Drawing A5, Furniture Plan. The plan shows added file cabinets on the floor. Please indicate size and weight of all the cabinets located throughout the floor and verify that the existing construction is adequate to support the load.

Size and weight of file cabinets are indicated on A-5. As well, load calculations showing compliance w/ Tower design loads on STR-01 are indicated.

5 Great Jones Street
Suite 1
New York, NY 10012
212 228-0525
212 228-1820 FAX

WORLD TRADE DEPARTMENT

Structural

4.) Drawing No. A3, Reflected Ceiling Plan: Please include World Trade Center Standard Details for Light Weight Ceiling Support Systems for floors with Double Trusses, Drawings STR-09 through STR-12 in the contract drawings.

See dwg A3 for above mentioned ceiling detail.

5.) Drawing No. A5, Furniture Plan:

a.) Please indicate the size and number of tiers for files, and the height for shelves on the plan

Size and weight of file cabinets are indicated on A-5. As well, load calculations showing compliance w/ Tower design loads on STR-01are indicated.

b.) Please provide structural calculations demonstrating that the design live load is not exceeded or the load from the high-density files, other concentrations of files, and shelves used for libraries or paper storage. In the calculations for the southwest corner, consider the loading in the entire two-way corner zone including adjacent offices. See World Trade Center Structural Design Guidelines, Drawings No. STR-01, for design live loads.

Size and weight of file cabinets are indicated on A-5. As well, load calculations showing compliance w/ Tower design loads on STR-01are indicated.

Electrical

6.) *Drawing E-2 North electric closet has been modified. Show the correct* layout.

See Engineering comments submitted by John Westrick & Associates

7.) Drawing E-3 Where is panel RP91NA? I would assume you mean RP-91NJ

See Engineering comments submitted by John Westrick & Associates

8.) Drawing E-3 Show closet metering arrangement unless tenant are not metered.

See Engineering comments submitted by John Westrick & *Associates*

Architectural

9.) Drawing A-2 Label existing egress stair by letter for reference purposes.

Existing egress stair has been labeled (A) for reference purposes. See dwg A2.

10.) Drawing A-2 Add the number of feet in distance on the two last legs of the path of travel diagram.

The number of feet in distance on the last legs of the path of travel diagram has been added to dwg A2.

11.) Drawing A-5 Recommendation: As per the ADA regulations there is supposed to be 18" clearance on the latch side of the floor. Review your plans for compliance ie, Corridor 9125. RM 9123, 9102 etc.

Above mentioned recommendation has been taken into consideration. Existing doors do comply with ADA regulations verified in recent field survey. See dwg A5

Fire Protection

12.) Specification 2, upright heads don't apply to finished ceiling. Please add the folowing specification

In all finish area, sprinkler heads shall be Reliable Automatic Sprinkler Co., Model G4 "Concealer," BS&A 587-75-SA, with a 165 degree temperature rating. The cover plate of heads must be chrome plated, not factory painted white. For 1, 2, an 5 World Trade Center, office size shall be ½", in 4 World Trade Center office size shall be 7/16".

See Engineering comments submitted by John Westrick & Associates

JOHN C. WESTRICK & ASSOCIATES

CONSULTING ENGINEERS

Project # 99101

2110 Maple Avenue
South Plainfield, New Jersey 07080

(908) 561-4170
FAX(908) 561-9399

December 17, 1999

Port Authority of New York & New Jersey
One World Trade Center-Floor 36 South
New York, N.Y. 10048

Att: **Mr. Saavedra**
Ref: **Flowers of the World**
T.A.A. # 991199

Dear Mr. Saavedra

I hereby resubmit the drawings for the above referenced application after having made appropriate revisions for your comments. The comments are resolved as follows:

ELECTRICAL

6. Drawing E-2; The North electric closet has not been modified on this floor the correct layout is shown.
7. Drawing E-3; There is no panel RP91NA an error was made in indicating the homeruns for the existing AC units, they have now been corrected to indicate panel LP91NA.
8. Drawing E-3; A one line diagram has been added to the plan to show metering.

FIRE PROTECTION

12. Specification #2 has now been revised as per your request.

If you have any further questions or comments please contact me as soon as possible. Thank you for your cooperation in this matter.

Very truly yours,

John C. Westrick

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ENGINEERING DEPT. QUALITY ASSURANCE DIV.
DESIGN STANDARDS

DEC 29 1999
W99-1199 (2)

RECEIV
ALTERATIONS APP
TENANT CONSTRUCTION

Professional Testing Laboratory Inc.

TEST REPORT

TEST NUMBER	0047611
DATE	06/12/97
PAGE	2 of 2

CLIENT	NETWORX/DIV. OF SHAW IND.
TEST METHOD CONDUCTED	ASTM E662-93 Specific Optical Density of Smoke Generated by Solid Materials, also referenced as NFPA 258

DESCRIPTION OF TEST SAMPLE

IDENTIFICATION	59084 Change Square
COLOR	84110
ROLL	191293-6
CONSTRUCTION	Multi-Level Loop Pile
FIBER	—
BACKING	ErgoFlex
REFERENCE	Test No: 052297-7

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ENGINEERING DEPT. QUALITY ASSURANCE DIV.
DESIGN STANDARDS

DEC 29 1999
W99-1199 (2)
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ALTERATIONS APPLICATION
TENANT CONSTRUCTION REVIEW UNIT

CONDITIONS	
PREDRYING OF TEST SAMPLE	24 Hours at 140 degrees F
CONDITIONING OF TEST SAMPLE	24 Hours at 70 degrees F and 50% relative humidity

FURNACE VOLTAGE	113.5 V	IRRADIANCE	2.5 Watts/sq cm
CHAMBER TEMPERATURE	95 degrees F	CHAMBER PRESSURE	3" H2O
TEST MODE	Flaming		

AVERAGE MAXIMUM DENSITY CORRECTED (Dmc)	120

	1	2	3
Maximum Density (Dm)	151	134	144
Time to Dm (minutes)	11	10.2	10.6
Clear Beam (Dc)	24	22	22
Corr. Max Density (Dmc)	127	112	122
Density at 1.5 minutes	13	13	17
Density at 4.0 minutes	117	105	117
Time to 90% Dm (minutes)	8.9	7.9	8.3
Specimen Weight (grams)	20.8	21.1	21.6

AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES: 115

APPROVED BY: Doug Phillips

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714 Glenwood Place Dalton, GA 30721 706-226-3283 Fax:

Professional Testing Laboratory Inc.

TEST REPORT

TEST NUMBER	0051633
DATE	02/03/98

CLIENT	SHAW COMMERCIAL

TEST METHOD CONDUCTED	Surface Flammability of Carpets and Rugs (CPSC FF 1-70)

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	50652 Alberti
COLOR	—
ROLL	E50524-7
CONSTRUCTION	Multi-Level Loop Pile
FIBER	—
BACKING	Action Bac
REFERENCE	Test No: 012298-13

GENERAL PRINCIPLE

This test method is intended to measure the response of finished textile floor covering materials when exposed to an ignition source under controlled laboratory conditions. It is applicable to all types of textile floor coverings whether constructed from natural or man-made materials.

TEST CRITERION

The uncharred area of the test specimen must be greater than one inch in at least seven of the eight specimens tested in order to meet the acceptance criterion.

TEST RESULTS

	SPECIMEN NUMBER							
	1	2	3	4	5	6	7	8
Uncharred Area (inches)	3.6	3.6	3.5	3.5	3.6	3.5	3.6	3.6

NOTE: This sample was tested on the face side.

This sample PASSES the Federal Flammability Standard DOC FF 1-70.

APPROVED BY: Greg Phillips

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Professional Testing Laboratory Inc.

TEST REPORT

TEST NUMBER	0051633
DATE	02/03/98
PAGE	1 of 2

CLIENT	SHAW COMMERCIAL
TEST METHOD CONDUCTED	ASTM E648-94a Critical Radiant Flux of Floor Covering Systems Using A Radiant Heat Energy Source, also referenced as NFPA 253 and FTM Standard 372

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	50652 Alberti
COLOR	—
ROLL	E50524-7
CONSTRUCTION	Multi-Level Loop Pile
FIBER	—
BACKING	Action Bac
REFERENCE	Test No: 012298-13

"This test report relates to installation in accordance with the criteria set forth in the report. Any variation in the criteria may produce different results."

TEST RESULTS

AVERAGE CRITICAL RADIANT FLUX	1.05 watts/square cm

GENERAL PRINCIPLE

This procedure is designed to measure the critical radiant flux at flame out, of horizontally mounted floor covering systems exposed to a flaming ignition in a test chamber which provides a graded radiant heat energy environment. The imposed radiant flux simulates the thermal radiation levels likely to impinge on the floors of a building whose upper surfaces are heated by flames of compartment. The test result is an average critical radiant flux (watts/square cm) which indicates the level of radiant heat energy required to sustain flame propagation in the flooring system. Theoretically, if a room fire does not impose a radiant flux that exceeds this critical level on a corridor floor covering system, flame spread will not occur.

This facility is accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code 1402.97. This accreditation does not constitute an endorsement, certification, or approval by NIST or any agency of the United States Government for the product tested. This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. This report applies only to those samples tested and is not necessarily indicative of apparently identical or similar products. This report, or the name of Professional Testing Laboratory, Inc., shall not be used under any circumstance in advertising to the general public.

NVLAP

714 Glenwood Place Dalton, GA 30721 706-226-3283 Fax: 706-226-6787

Professional Testing Laboratory Inc.

TEST REPORT

TEST NUMBER	0051633
DATE	02/03/98
PAGE	2 of 2

CLIENT	SHAW COMMERCIAL

TEST METHOD CONDUCTED	ASTM E648-94a Critical Radiant Flux of Floor Covering Systems Using A Radiant Heat Energy Source, also referenced as NFPA 253 and FTM Standard 372

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	50652 Alberti
COLOR	—
ROLL	E50524-7
CONSTRUCTION	Multi-Level Loop Pile
FIBER	—
BACKING	Action Bac
REFERENCE	Test No: 012298-13

"This test report relates to installation in accordance with the criteria set forth in the report. Any variatio in the criteria may produc different results."

FLOORING SYSTEM ASSEMBLY	
SUBSTRATE UNDERLAYMENT ADHESIVE	Mineral-Fiber/Cement Board Direct Glue Down Subset 1000
CONDITIONING	Each test sample was conditioned a minimum of 96 hours at 70 ± 5° F and 50± 5% relative humidity.

TEST RESULTS

TEST DATA	DISTANCE BURNED	TIME TO FLAME OUT	CRITICAL RADIANT FLUX
SPECIMEN 1	16 cm	19 minutes	1.00 watt/sq cm
SPECIMEN 2	10 cm	10 minutes	1.11 watt/sq cm
SPECIMEN 3	14 cm	9 minutes	1.04 watt/sq cm

AVERAGE CRITICAL RADIANT FLUX	1.05 watts/square cm
STANDARD DEVIATION	.06 watts/square cm
COEFFICIENT OF VARIATION	5%

APPROVED BY: Doug Phillips

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Professional Testing Laboratory Inc.

TEST REPORT

TEST NUMBER	0051633
DATE	02/03/98
PAGE	1 of 2

CLIENT	SHAW COMMERCIAL

TEST METHOD CONDUCTED	ASTM E662-93 Specific Optical Density of Smoke Generated by Solid Materials, also referenced as NFPA 258

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	50652 Alberti
COLOR	—
ROLL	E50524-7
CONSTRUCTION	Multi-Level Loop-Pile
FIBER	—
BACKING	Action Bac
REFERENCE	Test No: 012298-13

TEST RESULTS

FLAMING	143

GENERAL PRINCIPLE

This procedure is designed to measure the specific optical density of smoke generated by the test specimen within a closed chamber. Each specimen is exposed to an electrically heated radiant-energy source positioned to provide a constant irradiance level of 2.5 watts/square cm on the specimen surface. Measurements are recorded through a photometric system employing a vertical beam of light and a photo detector positioned to detect the attenuation of light transmittance caused by smoke accumulation within the chamber. The light transmittance measurements are used to calculate specific optical density, a quantitative value which can be factored to estimate the smoke potential of materials. Two burning conditions can be simulated by the test apparatus. The radiant heating in the absence of ignition is referred to as the Non-Flaming Mode. A flaming combustion in the presence of supporting radiation constitutes the Flaming Mode.

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Professional Testing Laboratory Inc.

TEST REPORT

TEST NUMBER	0051633
DATE	02/03/98
PAGE	2 of 2

CLIENT	SHAW COMMERCIAL
TEST METHOD CONDUCTED	ASTM E662-93 Specific Optical Density of Smoke Generated by Solid Materials, also referenced as NFPA 258

DESCRIPTION OF TEST SAMPLE

IDENTIFICATION	S0652 Alberti
COLOR	—
ROLL	E50524-7
CONSTRUCTION	Multi-Level Loop Pile
FIBER	—
BACKING	Action Bac
REFERENCE	Test No: 012298-13

CONDITIONS

PREDRYING OF TEST SAMPLE	24 Hours at 140 degrees F
CONDITIONING OF TEST SAMPLE	24 Hours at 70 degrees F and 50% relative humidity

FURNACE VOLTAGE	115 V	IRRADIANCE	2.5 watts/sq cm
CHAMBER TEMPERATURE	95 degrees F	CHAMBER PRESSURE	3" H20
TEST MODE	Flaming		

AVERAGE MAXIMUM DENSITY CORRECTED (Dmc) :	145

	1	2	3
Maximum Density (Dm)	153	186	145
Time to Dm (minutes)	4.4	3.0	5.6
Clear Beam (Dc)	19	20	16
Corr. Max Density (Dmc)	134	166	129
Density at 1.5 minutes	20	57	46
Density at 4.0 minutes	152	177	132
Time to 90% Dm (minutes)	2.5	2.4	3.9
Specimen Weight (grams)	12.6	12.7	12.5

AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES: 154

APPROVED BY: Greg Phillips

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Dalton, GA 30721 706-226-3283 Fax: 706-226-6787

Professional Testing Laboratory Inc.

TEST REPORT

TEST NUMBER	0047611
DATE	06/12/97
PAGE	1 of 2

CLIENT	NETWORX/DIV. OF SHAW IND.

TEST METHOD CONDUCTED	ASTM E662-93 Specific Optical Density of Smoke Generated by Solid Materials, also referenced as NFPA 258

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	59084 Change Square
COLOR	84110
ROLL	191293-6
CONSTRUCTION	Multi-Level Loop Pile
FIBER	—
BACKING	ErgoFlex
REFERENCE	Test No: 052297-7

TEST RESULTS

FLAMING	120

GENERAL PRINCIPLE

This procedure is designed to measure the specific optical density of smoke generated by the test specimen within a closed chamber. Each specimen is exposed to an electrically heated radiant-energy source positioned to provide a constant irradiance level of 2.5 watts/square cm on the specimen surface. Measurements are recorded through a photometric system employing a vertical beam of light and a photo detector positioned to detect the attenuation of light transmittance caused by smoke accumulation within the chamber. The light transmittance measurements are used to calculate specific optical density, a quantitative value which can be factored to estimate the smoke potential of materials. Two burning conditions can be simulated by the test apparatus. The radiant heating in the absence of ignition is referred to as the Non-Flaming Mode. A flaming combustion in the presence of supporting radiation constitutes the Flaming Mode.

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Professional Testing Laboratory Inc.

TEST REPORT

TEST NUMBER	0047611
DATE	06/12/97
PAGE	2 of 2

CLIENT	NETWORX/DIV. OF SHAW IND.

TEST METHOD CONDUCTED	ASTM E648-94a Critical Radiant Flux of Floor Covering Systems Using A Radiant Heat Energy Source, also referenced as NFPA 253 and FTM Standard 372

DESCRIPTION OF TEST SAMPLE		
IDENTIFICATION	59084 Change Square	
COLOR	84110	
ROLL	191293-6	
CONSTRUCTION	Multi-Level Loop Pile	
FIBER	—	
BACKING	ErgoFlex	
REFERENCE	Test No: 052297-7	"This test report relates to installation in accordance with the criteria set forth in the report. Any variation in the criteria may produce different results."

FLOORING SYSTEM ASSEMBLY	
SUBSTRATE UNDERLAYMENT ADHESIVE	Mineral-Fiber/Cement Board Direct Glue Down Subset 1000
CONDITIONING	Each test sample was conditioned a minimum of 96 hours at 70 ± 5° F and 50 ± 5% relative humidity.

TEST RESULTS

TEST DATA	DISTANCE BURNED	TIME TO FLAME OUT	CRITICAL RADIANT FLUX
SPECIMEN 1	41 cm	32 minutes	.49 watts/sq cm
SPECIMEN 2	41 cm	32 minutes	.49 watts/sq cm
SPECIMEN 3	38 cm	30 minutes	.53 watts/sq cm

AVERAGE CRITICAL RADIANT FLUX	.50 watts/square cm
STANDARD DEVIATION	.02 watts/square cm
COEFFICIENT OF VARIATION	5%

APPROVED BY: Doug Phillips

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Professional Testing Laboratory Inc.

TEST REPORT

TEST NUMBER	0047611
DATE	06/12/97
PAGE	1 of 2

CLIENT	NETWORX/DIV. OF SHAW IND.
TEST METHOD CONDUCTED	ASTM E648-94a Critical Radiant Flux of Floor Covering Systems Using A Radiant Heat Energy Source, also referenced as NFPA 253 and FTM Standard 372

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	59084 Change Square
COLOR	84110
ROLL	191293-6
CONSTRUCTION	Multi-Level Loop Pile
FIBER	—
BACKING	ErgoFlex
REFERENCE	Test No: 052297-7

"This test report relates to installation in accordance with the criteria set forth in the report. Any variation in the criteria may produce different results."

TEST RESULTS

AVERAGE CRITICAL RADIANT FLUX	.50 watts/square cm

GENERAL PRINCIPLE

This procedure is designed to measure the critical radiant flux at flame out, of horizontally mounted floor covering systems exposed to a flaming ignition in a test chamber which provides a graded radiant heat energy environment. The imposed radiant flux simulates the thermal radiation levels likely to impinge on the floors of a building whose upper surfaces are heated by flames of compartment. The test result is an average critical radiant flux (watts/square cm) which indicates the level of radiant heat energy required to sustain flame propagation in the flooring system. Theoretically, if a room fire does not impose a radiant flux that exceeds this critical level on a corridor floor covering system, flame spread will not occur.

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714 Glenwood Place Dalton, GA 30721 706-226-3283 Fax: 706-226-6787

Professional Testing Laboratory Inc.

TEST REPORT

TEST NUMBER	0047611
DATE	06/12/97

CLIENT	NETWORX/DIV. OF SHAW IND.

TEST METHOD CONDUCTED	Surface Flammability of Carpets and Rugs (CPSC FF 1-70)

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	59084 Change Square
COLOR	84110
ROLL	191293-6
CONSTRUCTION	Multi-Level Loop Pile
FIBER	—
BACKING	ErgoFlex
REFERENCE	Test No: 052297-7

GENERAL PRINCIPLE

This test method is intended to measure the response of finished textile floor covering materials when exposed to an ignition source under controlled laboratory conditions. It is applicable to all types of textile floor coverings whether constructed from natural or man-made materials.

TEST CRITERION

The uncharred area of the test specimen must be greater than one inch in at least seven of the eight specimens tested in order to meet the acceptance criterion.

TEST RESULTS

	SPECIMEN NUMBER							
	1	2	3	4	5	6	7	8
Uncharred Area (inches)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6

NOTE: This sample was tested on the face side.

This sample PASSES the Federal Flammability Standard DOC FF 1-70.

APPROVED BY: Greg Phillips

This facility is accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code 100297. This accreditation does not constitute an endorsement, certification, or approval by NIST or any agency of the United States Government for the product tested. This report is prepared for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. This report applies only to those samples tested and is not necessarily indicative of apparently identical or similar products. This report, or the name of Professional Testing Laboratory, Inc. shall not be used under any circumstances in advertising to the general public.

NVLAP

714 Glenwood Place Dalton, GA 30721 706-226-3283 Fax: 706-226-8787

THE PORT AUTHORITY OF NY & NJ

C WORLD TRADE CENTER
NEW YORK, NY 10048

(212) 435-7000
(201) 961-6600

Rec.
12/13/99

December 7, 1999

Donald Birney, V.P.
American Bureau of Shipping
Two World Trade Center – 106th Floor
New York, NY 10048

Re: American Burea of Shipping - One World Trade Center – 91ST Floor
TAA - 991199 – Submission One - Conditional Approval

Dear Mr. Birney:

This letter responds to your submission dated November 10, 1999, requesting a review of the documents listed on Attachment A to this letter. Tenant Alteration Application 991199 has been approved subject to compliance with the comments listed in Attachment B to this letter. We strongly recommend that these comments be transmitted to your contractor.

Incorporate the requirements of the comments into the construction documents, and respond to each of the comments in writing, and submit twelve (12) sets of the revised drawings by December 13, 1999. The revised documents shall be signed and sealed by the Engineer or Architect of record who is licensed to practice in the State of New York. Indicate the latest revision number on each drawing in the title box, circle each revision and place the latest revision number inside a triangle. Your cooperation in meeting the submission date for comment resolution will assist in meeting your client's schedule for occupancy.

The certifying Licensed Professional or Contractor referred to in Rider C shall contact Mr. Frank DeMartini in writing, at One World Trade Center, 88E, New York, N.Y. 10048, 72 hours prior to start of construction, to schedule a preconstruction meeting. Work scheduling and compliance with Port Authority requirements pertaining to construction work to be performed on the premises will be discussed at the meeting. Mr. DeMartini's telephone number is (212) 435-3212; fax number is (212) 435-2408.

Any changes to the already approved scope of work must be submitted to The Port Authority of New York and New Jersey for review and approval prior to the commencement of associated work. Only contract documents reviewed and approved by this office are to be released in the field for construction.

All correspondence or inquiries should be directed to Carlo J. Saavedra, Project Manager, at The Port Authority of New York and New Jersey, One World Trade Center, 88th Floor South, New York, N.Y. 10048. Telephone (212) 435-2922, fax (212) 435-8168.

Sincerely,

Joseph P. Napolitano
Program Manager, Design Build
Supervisor, Tenant Alteration Applications
Tenant Project Management
The World Trade Department

/cnb

bcc: S. Bhol, R. Benacchio, J. Castaldo, A. Fadavi, T. Koebel, E. Moscovitz, S. Murrey, J. Napolitano, J. Picone, J. Ruiz, C.J. Saavedra, N. Seliga, Central File, Chrono File

Attachment A - List Of Drawings
One World Trade Center – 91st Floor
TAA 991199 – Submission Three
American Bureau Of Shipping

Drawing	Title	Date
A0	General Notes, Abbreviations, Legend, List Of Drawings, Key Plan	11/03/99
A1	Demolition Plan	11/03/99
A2	Construction / Egress Plan	11/03/99
A3	Reflected Ceiling Plan	11/03/99
A4	Finish Plan	11/03/99
A5	Furniture Plan	111/03/99
A6	Details	11/03/99
A7	Specifications	11/03/99
M1	Mechanical Specifications	11/04/99
M2	Mechanical Plan	11/04/99
SP1	Sprinkler Plan	11/04/99
E1	Electrical Specifications	11/04/99
E2	Electrical Lighting Plan	11/04/99
E3	Electrical Power Plan	11/04/99
E4	Electrical Power Demolition Plan	11/04/99

Attachment B – List of Comments
One World Trade Center – 91st Floor
TAA – 991199 – Submission One
American Bureau of Shipping

QUALITY ASSURANCE DEPARTMENT

ARCHITECTURAL

1. Drawing A4. Submit test reports for the carpets from an independent testing laboratory in compliance with NYC Building Code Section 27-351(d)(2). Please note that the Smoke Developed Rating shall not exceed 300 within the first four minutes of the test as per NYCBC Section 27-351(d)(2)(c).

STRUCTURAL

2. Drawing A3, Typical Hung Ceiling Detail 2. The detail shown is applicable to the non-trussed, core areas of WTC. Submit ceiling detail for the trussed area according to PA Tenant Construction Review Manual, Attachment S2.

3. Drawing A5, Furniture Plan. The plan shows added file cabinets on the floor. Please indicate size and weight of all the cabinets located throughout the floor and verify that the existing construction is adequate to support the load.

WORLD TRADE DEPARTMENT

STRUCTURAL

4 Drawing No. A3, Reflected Ceiling Plan: Please include World Trade Center Standard Details for Light Weight Ceiling Support Systems for Floors with Double Trusses, Drawings STR-09 through STR-12 in the contract drawings.

5. Drawing No. A5, Furniture Plan:

   a) Please indicate the size and number of tiers for files, and the height for shelves on the plan.

   b) Please provide structural calculations demonstrating that the design live load is not exceeded or that the floor system is not overstressed due to the load from the high-density files, other concentrations of files, and shelves used for libraries or paper storage. In the calculations for the southwest corner, consider the loading in the entire two-way corner zone including adjacent offices. See World Trade Center Structural Design Guidelines, Drawing No. STR-01, for design live loads.

Attachment B – List of Comments
One World Trade Center – 91st Floor
TAA – 991199 – Submission One
American Bureau of Shipping

ELECTRICAL

6. Drawing E-2 North electric closet has been modified. Show the correct layout.

7. Drawing E-3 Where is panel RP91NA? I would assume you mean RP-91NJ.

8. Drawing E-3 Show closet metering arrangement unless tenant are not metered.

ARCHITECTURAL

9. Drawing A-2 Label the existing egress stair by letter for reference purposes.

10. Drawing A-2 Add the number of feet in distance on the two last legs of the path of travel diagram.

11. Drawing A-5 Recommendation: As per the ADA regulations there is supposed to be 18" clearance on the latch side of the door. Review your plans for compliance i.e., Corridor 9125, RM 9123, 9102 etc.

FIRE PROTECTION

12. Specification 2, upright heads don't apply to finished ceiling. Please add the following specification.

    In all finish area, sprinkler heads shall be Reliable Automatic Sprinkler Co., Model G4 "Concealer," BS&A 587-75-SA, with a 165-degree temperature rating. The cover plate of heads must be chrome plated, not factory painted white. For 1, 2, and 5 World Trade Center, orifice size shall be ½", in 4 World Trade Center orifice size shall be 7/16".

End of comments
120699

THE PORT AUTHORITY OF NY & NJ

Memorandum

TO:	**Teresa Koebel, Manager, World Trade Project Management**
FROM:	C. John Lin
DATE:	November 29, 1999
SUBJECT:	**WTC – ALTERATION APPLICATION W-991199 - AMERICAN BUREAU OF SHIPPING - 1 WTC, 91ST FLOOR - ADDITION OF NEW OFFICES**
REFERENCE:	Review Request dated 11/10/99
COPY TO:	A. Fadavi, J. Napolitano, J. Richardson, Chrono Folder, Job Folder

A review of the material submitted with the referenced request has been made.

It is recommended that **approval** to proceed with construction be given **subject to** the submission of the items listed below being revised in accordance with the **three (3) requirements** listed on the attached rider.

Drawings:

REMARKS: 1) See the attachment for a list of drawings recommended for approval.

2) This memorandum was transmitted to the Facility via Outlook on November 29, 1999.

for Mitchel Alder

C. John Lin, P.E.
Manager
Quality Assurance Division

I.D.: W99-1199-001
AR/lm
att.

Reviewers:
A. Rohssler, Coordinator; A. Ferrera, Structural; H. Klimenko, Structural; K. Narsule, Mechanical and Plumbing; T. Santa Maria, Electrical.

RIDER

ALTERATION APPLICATION W-991199

ARCHITECTURAL

1. Drawing A4. Submit test reports for the carpets from an independent testing laboratory in compliance with NYC Building Code Section 27-351(d)(2). Please note that the Smoke Developed Rating shall not exceed 300 within the first four minutes of the test as per NYCBC Section 27-351(d)(2)(c).

STRUCTURAL

2. Drawing A3, Typical Hung Ceiling Detail 2. The detail shown is applicable to the non-trussed, core areas of WTC. Submit ceiling detail for the trussed area according to PA Tenant Construction Review Manual, Attachment S2.

3. Drawing A5, Furniture Plan. The plan shows added file cabinets on the floor. Please indicate size and weight of all the cabinets located throughout the floor and verify that the existing construction is adequate to support the load.

112999

ATTACHMENT

ALTERATION APPLICATION W-991199

Subject to compliance with the requirements listed in this memorandum's rider, the following drawings are recommended for approval:

DRAWINGS	DATED
Cover Sheet	11/03/99
A0	11/03/99
A1	11/03/99
A2	11/03/99
A3	11/03/99
A4	11/03/99
A5	11/03/99
A6	11/03/99
A7	11/03/99
M-1	11/04/99
M-2	11/04/99
E-1	11/04/99
E-2	11/04/99
E-3	11/04/99
E-4	11/04/99

112999

__ Drawing A3, Typical Hung Ceiling Detail 2. The detail shown is applicable to the non-trussed, core areas of WTC. Submit ceiling detail for the trussed area according to TCRM, Attachment S2

__ Drawing A5, Furniture Plan. The plan shows added file cabinets on the floor. Please indicate size and weight of all the cabinets located throughout the floor and verify that the existing construction is adequate to support the load.

RIDER

ALTERATION APPLICATION W99-1199

ELECTRICAL

1. Drawing E-3. Branch circuit homeruns to Panels CP and RP91N are shown. Please provide information as to the rating of the overcurrent protection for each branch circuits. It may be convenient to show the information in tabular form (e.g., a panel schedule, etc.) for each branch circuit. See NYC Electrical Code Sections 27-3167 and 27-3169.

I dropped the comment as minor.

Alvin S. Rohse
11/24/99

RIDER

ALTERATION APPLICATION W991199

ARCHITECTURAL

1. Drawing A4. Submit test reports for the Carpets from an independent testing Laboratory in compliance with NYC Building Code Section 27-351(d)(2). Please note that the Smoke Developed Rating shall not exceed 300 within the first four minutes of the test as per NYCBC Section 27-351(d)(2)©.

Revised 11/99

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY
TENANT ALTERATION APPLICATION REVIEW REQUEST

11/30

DISTRIBUTION		
No.	To	Facility
4	QAD	PATC Zip 73
1	D. Warren	PATC Zip 43
1	S.P. Chiao	88 S
1	G. Daly	88 S
1	B. Brown	88 S
1	E. Corneliuz/Nick Strenk - LERA	2 WTC 37th Fl
1* 1*	R. Simonetti CADD Disk Set	2 WTC 37th Fl.
1	F. DeMartini	88 S
1	P. Negron	2 WTC 37th Fl
1	S. Batra	2 WTC 37th Fl
1	C. Semah	2 WTC 35th Fl

Facility WTC Floor 91 TAA No. 991199 Date 11/24/99

Application/Tenant (ABS) AMERICAN BUREAU OF SHIPPING

Consultant Michael G. Farley Arch.

Estimated Cost $50,000 Submittal No One (1)

Description of Work

Addition of New Offices

*** for each submission**

Please review the attached (revised) application and send comments to:

Name: Carlo J. Saavedra

Location: 1 WTC, 88S Phone No. 435-2922

Fax No.: 435-8168

11/24/99
Due Date

DESIGN DISCIPLINES

- [ ] Architectural
- [ ] Egress Analysis
- [ ] Structural
- [ ] HVAC
- [ ] Plumbing
- [ ] Sprinkler
- [ ] Electrical
- [ ] Utility > 600 V
- [ ] Civil
- [ ] Geotechnical
- [ ] Environmental
- [ ] Fueling
- [ ] Radio Freq. Coord.
- [ ] Corrosion Protection
- [ ] Elevator/Escalator
- [ ] Other

ATTACHMENTS

- [ ] Document List
- [ ] Contract Drawings
- [ ] Contract Specifications
- [ ] Tenant Response
- [ ] Computations
- [ ] Reports
- [ ] Catalog Cuts
- [ ] Other

SPECIAL INSTRUCTIONS

DESCRIPTION

OFFICE COPY

THE PORT AUTHORITY OF N.Y. & N.J.
ENGINEERING DEPT. QUALITY ASSURANCE DIV.
DESIGN STANDARDS

NOV 15 1999
W99-1199
RECEIVED
ALTERATIONS APPLICATION
TENANT CONSTRUCTION REVIEW UNIT

Signature

Copy to: R. Benacchio, T. Koebel, J. Napolitano, L. Menno, E. Monteverde, J. Richardson, J. Ruiz, N. Seliga, F. Varriano

_____(Proj. Mgr.)

_____(Zone Prop. Mgr.)

Attachment A - List Of Drawings
One World Trade Center – 91st Floor
TAA 991199 – Submission One
American Bureau Of Shipping

Drawing	Title	Date
A0	General Notes, Abbreviations, Legend, List Of Drawings, Key Plan	11/03/99
A1	Demolition Plan	11/03/99
A2	Construction / Egress Plan	11/03/99
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ENGINEERING DEPT. QUALITY ASSURANCE DIV
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NOV 15 1999
W99-1199
RECEIVED
ALTERATIONS APPLICATION
TENANT CONSTRUCTION REVIEW UNIT

File Fee #
Contract #

THE PORT AUTHORITY OF NY & NJ
One World Trade Center, New York, N.Y. 10

For Port Authority use only
FACILITY 1 WTC 91 | APP. NO. 991191
DATE 11/10/99 | APPLICANT'S NAME ABS

TENANT CONSTRUCTION OR ALTERATION APPLICATION

APPLICANT MUST READ THE TERMS AND CONDITIONS PRINTED ON THE REVERSE HEREOF

The Applicant shall not commence performance of any of the said work prior to the receipt by Applicant of a copy of this application duly signed in Part Two hereof on behalf of The Port Authority of New York and New Jersey. Upon receipt thereof, the Applicant agrees to perform said work in accordance with the following "Information to be Furnished by Applicant" and to comply with and be bound by all requirements and conditions set forth below under the remarks, if any, in Part Two hereof and the terms and conditions set forth on the reverse hereof.

PART ONE: Information to be furnished by Applicant (Refer to your lease or permit for required information)

Permission is hereby requested to perform the following described work on the space occupied by the Applicant

AT (FACILITY)	PURSUANT TO (LEASE, SPACE PERMIT) NUMBER	LOCATION (BUILDING NUMBER OR AREA) OF SPACE TO BE ALTERED
WTC		WTC Tower 1 Suite # 9165

DESCRIPTION OF WORK AND REASON
Addition of new offices, Relocation of sprinkler heads, New Ceiling where affected by construction, New carpet through out and paint

ESTIMATED COST OF WORK	ESTIMATED TIME TO COMPLETE (DAYS)	STARTING DATE	COMPLETION DATE
$ 50,000.00	21 days	11/26/99	12/17/99

Plans: Prints of each drawing must be submitted with copies of application. Include floor plan and show area affected by proposed work (size 8 1/2" x 11" or larger).

TITLE OF DRAWING	DRAWING NUMBER	DATED
A0-Gen'l notes, A1-demolition Plans, a2- Const. Plan, A3- REf. Clg. plan, A4- Finish Plan, A5- Furniture Plan, A6- Details, A7- Specs., M1- Mech. Specs., M2- Mech Plan. E1- Elect. spec. SP1- Sprinkler Plan., E2-Lighting Plan, E3- Power plan, E-4 Pwer demo.		11/3/99

NAME & ADDRESS OF CONTRACTOR (IF NOT KNOWN, SUBMIT LATER)	NAME AND ADDRESS OF ENGINEER OR ARCHITECT	TELEPHONE NUMBER / LICENSE NUMBER
Nelson ConstructionInc 594 Industrial Ave. Paramus, NJ 07087	Michael G. Fahey Architects 5 Great Jones St. Ste. # 1 New York, NY 10012	212-228-052 019509

SEND CORRESPONDENCE TO:
(NAME AND ADDRESS OF EMPLOYEE IN CHARGE OF WORK)
Mr. Donald Birney, V.P.
American Bureau of Shipping
2 World Trade Center, 106th Fl.
NY, NY 10048
TELEPHONE NUMBER 212-839-5155

ENGINEER OR ARCHITECT CERTIFICATION

I have supervised the preparation of plans and specifications for the entire work represented herein and hereby certify that they conform to the requirements of the respective enactments, ordinances, resolutions and regulations of the City, town or municipality in regard to construction and maintenance of buildings and structures and in regard to health and fire protection which would be applicable if the Port Authority were a private corporation.

APPLICANT'S NAME (AS IT APPEARS ON LEASE OR PERMIT)
American Bureau of Shipping

BY (SIGNATURE OF AUTHORIZED REP.)	TITLE	DATE	SIGNATURE OF LICENSED PROFESSIONAL ENGINEER OR ARCHITECT	DATE
Donald M Birney	V.P.	11/5/99		11/5/99

The Contractor by signing below agrees to all the terms and conditions on this application and printed on the reverse side thereof, including #5 indemnifying the Port Authority, and further agrees to be bound by all riders and schedules attached to this application

☐ The Applicant must check here if the Professional Certification Program is elected for tenant construction or alteration at the World Trade Center.

OFFICE COPY

Signature: [signature] 11/05/99
(Contractor) Date

Signature: / /
(Applicant Officer/Partner) Date

Address: 594 Industrial Ave.
Paramus, NJ 07087

Please advise the undersigned, in writing, when this work has been completed.

THE PORT AUTHORITY OF N.Y. & N.J.
ENGINEERING DEPT. QUALITY ASSURANCE DIV
DESIGN STANDARDS
NOV 15 1999
IN99-1199 ①
RECEIVED
ALTERATIONS APPLICATION
TENANT CONSTRUCTION REVIEW UNIT

PART TWO: Prepared by Port Authority and returned to Applicant

The above Application is ☐ Approved ☐ Disapproved. Subject to the following conditions

☐ Continued on Rider "A," "B," "C," "F," and "G" (Rider G will be included only for the Professional Certification Program)

THE PORT AUTHORITY OF NY & NJ

BY

INSPECTED BY	DATE	TITLE	DATE
	/ /	Manager of Tenant and Technical Services/WTD	/ /